

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: FAIL-SAFE

Report Number: P973518

Luminaire Tested: FLR2-22-25-L830-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973518
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR2-22-25-L830-CA080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

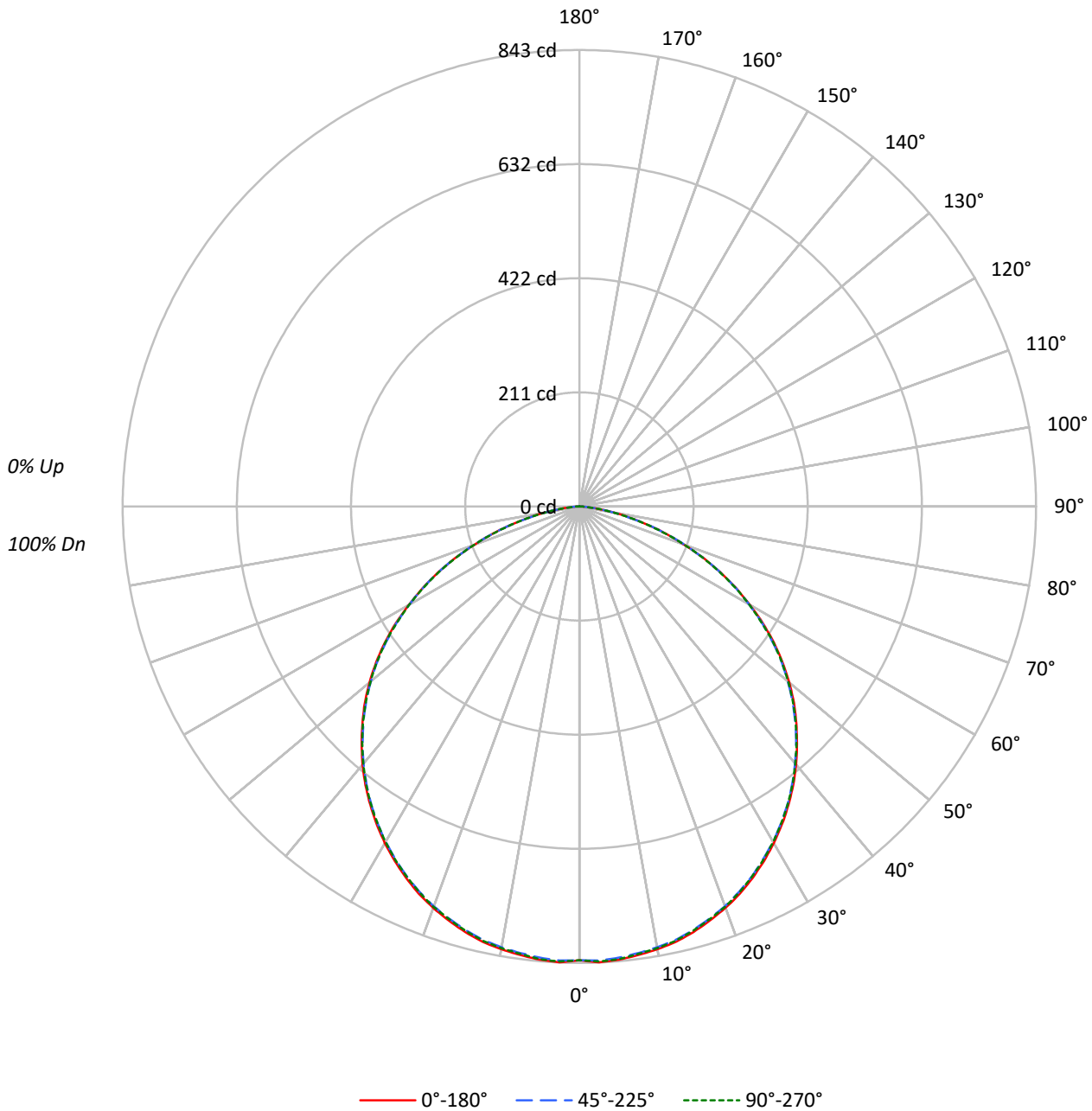
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2343.8 lumens
Efficiency: N/A
Efficacy: 124.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.38
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 18.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor:
Total Harmonic Distortion (THDi):
Frequency (hertz): 60
Stabilization Time: HR
Operation Time: HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2255	2255	2255
5°	2270	2260	2267
10°	2269	2259	2263
15°	2267	2257	2260
20°	2259	2250	2253
25°	2247	2238	2239
30°	2231	2221	2223
35°	2211	2202	2204
40°	2187	2177	2179
45°	2155	2145	2149
50°	2117	2102	2107
55°	2057	2040	2047
60°	1956	1947	1947
65°	1826	1823	1816
70°	1617	1625	1621
75°	1362	1351	1340
80°	979	962	955
85°	513	513	494

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2155 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.4	3.4
10°-20°	228.2	9.7
20°-30°	346.8	14.8
30°-40°	419.2	17.9
40°-50°	435.1	18.6
50°-60°	389.0	16.6
60°-70°	282.8	12.1
70°-80°	139.1	5.9
80°-90°	24.1	1.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	654.4	27.9
0°-40°	1073.6	45.8
0°-60°	1897.7	81.0
0°-90°	2343.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2343.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	838	838	838	838	838	
5°	840	830	836	833	839	80
15°	814	804	810	808	811	230
25°	757	748	754	752	754	349
35°	673	668	670	671	671	421
45°	566	564	564	565	565	437
55°	438	436	435	436	436	391
65°	287	288	286	286	285	283
75°	131	132	130	130	129	139
85°	17	17	17	17	16	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	838.1	838.1	838.1	838.1	838.1
2.5°	842.8	832.9	839.1	835.5	841.2
5°	840.2	830.3	836.5	833.4	839.1
7.5°	835.5	825.7	831.9	828.8	833.4
10°	830.3	820.0	826.7	823.6	828.3
12.5°	823.6	813.8	820.0	817.4	821.5
15°	813.8	804.4	810.1	808.1	811.2
17.5°	801.9	792.5	798.2	796.7	799.3
20°	788.9	780.1	785.8	784.3	786.8
22.5°	774.4	765.1	770.3	769.2	771.3
25°	756.8	748.5	753.7	752.2	754.2
27.5°	738.2	730.4	734.6	734.6	735.6
30°	718.0	710.8	714.9	714.9	715.4
32.5°	696.3	690.6	693.2	693.7	693.7
35°	673.0	668.3	670.4	670.9	670.9
37.5°	648.6	644.0	645.5	646.6	646.6
40°	622.7	618.6	619.6	620.7	620.2
42.5°	594.8	591.7	592.2	593.2	593.2
45°	566.3	563.7	563.7	564.8	564.8
47.5°	537.3	534.7	533.7	534.7	534.7
50°	505.8	503.2	502.1	503.2	503.2
52.5°	472.6	470.0	470.0	470.0	470.6
55°	438.5	435.9	434.8	435.9	436.4
57.5°	402.2	401.2	399.6	400.2	398.6
60°	363.4	363.4	361.8	362.9	361.8
62.5°	325.6	326.6	325.1	325.1	324.1
65°	286.8	287.8	286.3	286.3	285.2
67.5°	246.9	248.5	246.4	246.4	245.4
70°	205.5	208.6	206.5	207.1	206.0
72.5°	168.2	169.8	167.7	167.7	166.7
75°	131.0	132.0	129.9	130.5	128.9
77.5°	94.2	95.8	93.7	94.2	93.7
80°	63.2	63.7	62.1	62.6	61.6
82.5°	36.8	37.3	36.8	36.2	35.7
85°	16.6	17.1	16.6	16.6	16.0
87.5°	4.1	4.1	4.1	4.1	4.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)